

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
December 2004

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of December 2004.

Statewide precipitation was about of average for the 2004-2005 water year as of December 31. Statewide runoff was 80 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: <http://cdec.water.ca.gov/snow-rain.html>.

On December 31, total storage in major SWP reservoirs was about 3.50 MAF, compared with about 2.91 MAF at this time in 2003. The average storage in the major SWP reservoirs at the end of December is about 3.48 MAF. The December 31 storage at Lake Oroville was about 2.25 MAF as compared to 1.60 MAF last year. The State's share of San Luis Reservoir storage was about 616 TAF, as compared with 676 TAF at this time last year. On December 31, the combined storage in our southern reservoirs was about 635 TAF, about the same as the storage at this time last year.

Through December, SWP water deliveries for 2004 were about 3.3 MAF. This is a combination of project, transfer, and exchange waters. This is 73 TAF less than delivered during the same period in 2003.

An earthquake with a magnitude of 3.8 occurred at 1748 on December 4 centered 7 miles south of Willow Creek, CA. No damage to the State Water Project noted after inspections.

An earthquake with a magnitude of 4.0 occurred at 2016 on December 14 centered 18 miles SSE of Hollister, CA. No damage to the State Water Project noted after inspections.

An earthquake with a magnitude of 3.9 occurred at 2000 on December 25 centered 24 miles SE of Susanville, CA. No damage to the State Water Project noted after inspections.

An earthquake with a magnitude of 3.1 occurred at 0217 on December 26 centered 60 miles north of Independence, CA. No damage to the State Water Project noted after inspections.

An earthquake with a magnitude of 4.0 occurred at 0236 on December 27 centered 25 miles south of Colusa, CA. No damage to the State Water Project noted after inspections.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage	Total Outflow		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Nov 30	4993.11	15,155									
1	est4993.11	15,155	0	20	0	0	0	1	21	21	
2	est4993.11	15,155	0	20	0	0	0	1	21	21	
3	est4993.26	15,265	110	20	0	0	0	1	21	76	
4	est4993.26	15,265	0	20	0	0	0	1	21	21	
5	est4996.26	15,265	0	20	0	0	0	1	21	21	
6	4993.42	15,384	119	20	0	0	0	1	21	81	
7	4993.42	15,413	29	20	0	0	0	1	21	36	
8	4993.46	15,413	0	20	0	0	0	1	21	21	
9	4993.46	15,413	0	20	0	0	0	1	21	21	
10	4993.46	15,413	0	20	0	0	0	1	21	21	
11	4993.45	15,406	-7	20	0	0	0	1	21	17	
12	4993.42	15,384	-22	20	0	0	0	1	21	10	
13	4993.41	15,376	-8	20	0	0	0	1	21	17	
14	4993.38	15,354	-22	20	0	0	0	1	21	10	
15	4993.36	15,339	-15	20	0	0	0	1	21	13	
16	4993.33	15,317	-22	20	0	0	0	1	21	10	
17	4993.30	15,295	-22	20	0	0	0	1	21	10	
18	4993.26	15,265	-30	20	0	0	0	1	21	6	
19	4993.24	15,250	-15	20	0	0	0	2	22	14	
20	4993.21	15,228	-22	20	0	0	0	2	22	11	
21	4993.15	15,184	-44	20	0	0	0	2	22	0	
22	4993.10	15,147	-37	20	0	0	0	2	22	3	
23	4993.07	15,125	-22	20	0	0	0	2	22	11	
24	4993.03	15,096	-29	20	0	0	0	2	22	7	
25	4992.99	15,066	-30	20	0	0	0	2	22	7	
26	4992.94	15,030	-36	20	0	0	0	2	22	4	
27	4992.91	15,008	-22	20	0	0	0	2	22	11	
28	4992.90	15,000	-8	20	0	0	0	2	22	18	
29	4992.89	14,993	-7	20	0	0	0	1	21	17	
30	4992.94	15,030	37	20	0	0	0	1	21	40	
31	4992.96	15,044	14	20	0	0	0	1	21	28	
Total cfs-days				---	620	0	0	41	661	604	
Total ac-ft				-111	1,230	0	0	81	1,311	1,200	

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Nov 30	5561.85	23,139								
1	5561.86	23,148	9	2	0	0	0	1	3	
2	5581.90	23,185	37	2	0	0	0	1	3	
3	5581.93	23,212	27	2	0	0	0	1	3	
4	5561.93	23,212	0	2	0	0	0	1	3	
5	5562.03	23,303	91	2	0	0	0	1	3	
6	5562.04	23,314	11	2	0	0	0	1	3	
7	5562.11	23,379	65	2	0	0	0	1	3	
8	5562.19	23,453	74	2	0	0	0	1	3	
9	5562.25	23,509	56	2	0	0	0	1	3	
10	5562.31	23,564	55	2	0	0	0	1	3	
11	5562.35	23,602	38	2	0	0	0	2	4	
12	5562.39	23,639	37	2	0	0	0	2	4	
13	5562.46	23,704	65	2	0	0	0	2	4	
14	5562.56	23,798	94	2	0	0	0	2	4	
15	5562.55	23,789	-9	2	0	0	0	2	4	
16	5562.62	23,854	65	2	0	0	0	2	4	
17	5562.66	23,892	38	2	0	0	0	2	4	
18	5562.72	23,948	56	2	0	0	0	2	4	
19	5562.78	24,004	56	2	0	0	0	2	4	
20	5562.80	24,023	19	2	0	0	0	2	4	
21	5562.83	24,051	28	2	0	0	0	2	4	
22	5562.89	24,108	57	2	0	0	0	2	4	
23	5562.94	24,155	47	2	0	0	0	2	4	
24	5562.98	24,193	38	2	0	0	0	2	4	
25	5562.98	24,193	0	2	0	0	0	2	4	
26	5563.01	24,221	28	2	0	0	0	2	4	
27	5563.04	24,250	29	2	0	0	0	2	4	
28	5563.13	24,335	85	2	0	0	0	2	4	
29	5563.22	24,420	85	2	0	0	0	2	4	
30	5563.42	24,611	191	2	0	0	0	2	4	
31	5563.49	24,678	67	2	0	0	0	2	4	
Total cfs-days				---	62	0	0	52	114	
Total ac-ft				1,539	123	0	0	103	226	
									1,765	

Table 3. Lake Davis

Daily Operation
(in acre-feet except as noted)

Capacity: 84,371 ac-ft

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow (cfs)	
				Regulated Release			Spill	Estimated Evaporation And Seepage		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Nov 30	5762.42	41,935								
1	5762.41	41,908	-27	10	0	0	0	4	14	
2	5762.40	41,880	-28	10	0	0	0	4	14	
3	5762.38	41,826	-54	10	0	0	0	17	27	
4	5762.37	41,799	-27	10	0	0	0	4	14	
5	5762.36	41,772	-27	10	0	0	0	4	14	
6	5762.37	41,799	27	10	0	0	0	0	10	
7	5762.42	41,939	140	10	0	0	0	0	10	
8	5762.48	42,098	159	10	0	0	0	0	10	
9	5762.46	42,043	-55	9	0	0	0	19	28	
10	5762.46	42,043	0	10	0	0	0	0	10	
11	5762.46	42,043	0	10	0	0	0	0	10	
12	5762.46	42,043	0	10	0	0	0	0	10	
13	5762.46	42,043	0	10	0	0	0	0	10	
14	5762.45	42,016	-27	10	0	1	0	3	14	
15	5762.45	42,016	0	10	0	0	0	0	10	
16	5762.45	42,016	0	9	0	0	0	0	9	
17	5762.44	42,016	0	10	0	0	0	0	10	
18	5762.43	41,962	-54	10	0	0	0	17	27	
19	5762.42	41,935	-27	10	0	0	0	4	14	
20	5762.41	41,908	-27	10	0	0	0	4	14	
21	5762.40	41,880	-28	10	0	0	0	4	14	
22	5762.38	41,826	-54	10	0	0	0	17	27	
23	5762.38	41,826	0	9	0	0	0	0	9	
24	5762.37	41,799	-27	10	0	0	0	4	14	
25	5762.34	41,718	-81	10	0	0	0	31	41	
26	5762.32	41,664	-54	10	0	0	0	17	27	
27	5762.32	41,664	0	10	0	1	0	0	11	
28	5762.33	41,691	27	10	0	0	0	0	10	
29	5762.38	41,826	135	10	0	0	0	0	10	
30	5762.54	42,261	435	10	0	1	0	0	11	
31	5762.58	42,343	82	10	0	0	0	0	51	
Total cfs-days				---	307	0	3	0	153	
Total ac-ft				408	609	0	6	0	303	
									918	
									1,326	

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Nov 30	741.99	1,604,001								
	1	741.75	1,601,834	-2,167	8,265	4	20	0	8,289	0
	2	741.68	1,601,202	-632	5,997	4	62	0	6,063	0
	3	741.68	1,601,202	0	5,137	4	106	0	5,247	0
	4	742.02	1,604,273	3,071	2,341	4	25	0	2,370	0
	5	742.48	1,608,435	4,162	435	4	25	0	464	0
	6	742.46	1,608,253	-182	4,287	4	38	0	4,329	0
	7	742.92	1,612,422	4,169	4,363	4	31	0	4,398	0
	8	744.76	1,629,174	16,752	5,383	1	0	0	5,384	0
	9	745.70	1,637,780	8,606	6,459	0	0	0	6,459	0
	10	746.36	1,643,841	6,061	5,076	0	6	0	5,082	0
	11	746.80	1,647,890	4,049	4,797	0	25	0	4,822	0
	12	747.11	1,650,748	2,858	5,760	0	25	0	5,785	0
	13	747.11	1,650,748	0	7,703	1	6	0	7,710	0
	14	746.94	1,649,180	-1,568	7,801	4	25	0	7,830	0
	15	746.56	1,645,680	-3,500	7,869	4	19	0	7,892	0
	16	745.95	1,640,073	-5,607	8,779	4	19	0	8,802	0
	17	745.83	1,638,972	-1,101	9,322	4	38	0	9,364	0
	18	745.74	1,638,146	-826	5,224	4	25	0	5,253	0
	19	745.74	1,638,147	1	6,339	4	13	0	6,356	0
	20	745.75	1,638,238	91	6,300	4	25	0	6,329	0
	21	745.71	1,637,871	-367	6,444	4	6	0	6,454	0
	22	745.63	1,637,138	-733	7,758	4	89	0	7,851	0
	23	745.41	1,635,121	-2,017	8,055	4	108	0	8,167	0
	24	745.05	1,631,826	-3,295	6,745	4	101	0	6,850	0
	25	745.34	1,634,480	2,654	2,878	3	19	0	2,900	0
	26	745.36	1,634,663	183	6,070	3	19	0	6,092	0
	27	745.19	1,633,106	-1,557	7,774	3	57	0	7,834	0
	28	745.09	1,632,191	-915	10,539	2	13	0	10,554	0
	29	745.37	1,634,755	2,564	7,976	1	6	0	7,983	0
	30	746.18	1,642,186	7,431	7,477	0	57	0	7,534	0
	31	746.40	1,644,209	2,023	9,358	0	6	0	9,364	0
Total				40,208	198,711	86	1,014	0	199,811	0
1/ Includes bypass flows										
2/ Evaporation will be zero for days when there is precipitation or heavy overcast.										
3/ Does not include pumpback.										

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

December 2004

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Nov 30	23,417										
1	24,578	1,161	8,265	506	0	6,420	2	3	1,245	0	60
2	21,909	-2,669	5,997	506	0	7,762	2	3	1,241	0	-164
3	24,464	2,555	5,137	506	0	1,848	2	3	1,239	0	4
4	24,974	510	2,341	504	0	1,104	2	3	1,247	0	21
5	23,470	-1,504	435	315	0	976	2	3	1,249	0	-24
6	23,890	420	4,287	10	0	2,662	2	3	1,245	0	35
7	22,151	-1,739	4,363	54	0	5,028	3	3	1,249	0	127
8	24,572	2,421	5,383	236	0	2,658	3	3	1,257	0	723
9	24,181	-391	6,459	506	0	5,916	3	3	1,245	0	-189
10	24,580	399	5,076	506	0	3,798	3	3	1,239	0	-140
11	24,978	398	4,797	165	0	3,150	3	3	1,239	0	-169
12	24,452	-526	5,760	0	0	4,964	3	3	1,241	0	-75
13	23,517	-935	7,703	141	0	7,432	3	3	1,249	0	-92
14	24,534	1,017	7,801	0	0	5,628	3	3	1,243	0	93
15	24,666	132	7,869	93	0	6,523	3	3	1,249	0	-52
16	24,278	-388	8,779	147	0	8,027	3	3	1,249	0	-32
17	23,676	-602	9,322	105	0	8,835	3	4	1,247	0	60
18	24,742	1,066	5,224	105	0	3,052	3	4	1,237	0	33
19	24,133	-609	6,339	65	0	5,604	3	4	1,247	0	-155
20	24,895	762	6,300	101	0	4,326	3	4	1,245	0	-61
21	25,026	131	6,444	105	0	4,884	3	4	1,247	0	-280
22	24,647	-379	7,758	119	0	6,886	3	4	1,239	0	-124
23	24,516	-131	8,055	83	0	6,922	3	4	1,235	0	-105
24	25,110	594	6,745	0	0	4,915	3	4	1,242	0	13
25	25,176	66	2,878	0	0	1,600	3	4	1,252	0	47
26	24,283	-893	6,070	0	0	5,679	3	4	1,243	0	-34
27	24,799	516	7,774	83	0	6,128	3	4	1,242	0	36
28	24,896	97	10,539	0	0	9,541	3	4	1,253	0	359
29	24,829	-67	7,976	294	0	7,412	3	4	1,253	0	335
30	24,316	-513	7,477	508	0	7,840	3	4	1,271	0	620
31	24,660	344	9,358	512	0	8,662	3	4	1,251	0	394
Total		1,243	198,711	6,275	0	166,182	87	108	38,630	0	1,264

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Nov 30	131.03	35,660											
1	131.28	36,538	878	6,420	1,573	9	504	662	2,856	0	62	4,101	
2	131.86	38,611	2,073	7,762	1,563	9	514	696	2,856	0	-51	4,097	
3	130.79	34,827	-3,784	1,848	1,563	9	514	664	2,658	0	-224	3,897	
4	129.55	30,672	-4,155	1,104	1,561	9	514	639	2,460	0	-76	3,707	
5	128.29	26,707	-3,965	976	1,561	9	514	637	2,262	0	42	3,511	
6	127.75	25,087	-1,620	2,662	1,567	6	524	617	2,262	0	694	3,507	
7	127.68	24,880	-207	5,028	1,561	4	561	526	2,262	0	-321	3,511	
8	127.07	23,116	-1,764	2,658	1,547	2	627	422	2,261	0	437	3,518	
9	127.49	24,324	1,208	5,916	1,525	0	653	390	2,261	0	121	3,506	
10	127.14	23,316	-1,008	3,798	1,480	0	653	390	2,241	0	-42	3,480	
11	126.61	21,827	-1,489	3,150	1,472	0	651	390	2,241	0	115	3,480	
12	126.57	21,717	-110	4,964	1,474	0	652	390	2,261	0	-297	3,502	
13	127.57	24,558	2,841	7,432	1,498	0	653	393	2,261	0	214	3,510	
14	127.76	25,116	558	5,628	1,505	0	653	401	2,261	0	-250	3,504	
15	128.32	26,798	1,682	6,523	1,507	0	653	422	2,261	0	2	3,510	
16	129.27	29,769	2,971	8,027	1,505	2	651	448	2,261	0	-189	3,510	
17	130.41	33,528	3,759	8,835	1,525	4	651	494	2,261	0	-141	3,508	
18	129.86	31,688	-1,840	3,052	1,533	4	651	510	2,241	0	47	3,478	
19	129.99	32,118	430	5,604	1,533	4	651	510	2,261	0	-215	3,508	
20	129.83	31,589	-529	4,326	1,533	4	653	512	2,261	0	108	3,506	
21	129.84	31,622	33	4,884	1,535	4	653	512	2,261	0	114	3,508	
22	130.42	33,562	1,940	6,886	1,517	4	597	512	2,261	0	-55	3,500	
23	131.06	35,765	2,203	6,922	1,509	4	573	512	2,261	0	140	3,496	
24	131.02	35,625	-140	4,915	1,509	4	573	510	2,261	0	-198	3,503	
25	130.10	32,485	-3,140	1,600	1,505	4	573	510	2,261	0	113	3,513	
26	130.28	33,088	603	5,679	1,509	4	573	500	2,261	0	-229	3,504	
27	130.71	34,552	1,464	6,128	1,509	4	573	472	2,261	0	155	3,503	
28	132.13	39,595	5,043	9,541	1,509	4	575	428	2,261	0	279	3,514	
29	133.01	42,880	3,285	7,412	1,509	4	573	395	2,261	0	615	3,514	
30	133.90	46,326	3,446	7,840	1,511	2	577	377	2,261	0	334	3,532	
31	134.95	50,535	4,209	8,662	1,472	0	573	339	2,241	0	172	3,492	
Total		14,875		166,182	47,180	113	18,510	15,180	71,800	0	1,476	110,430	

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

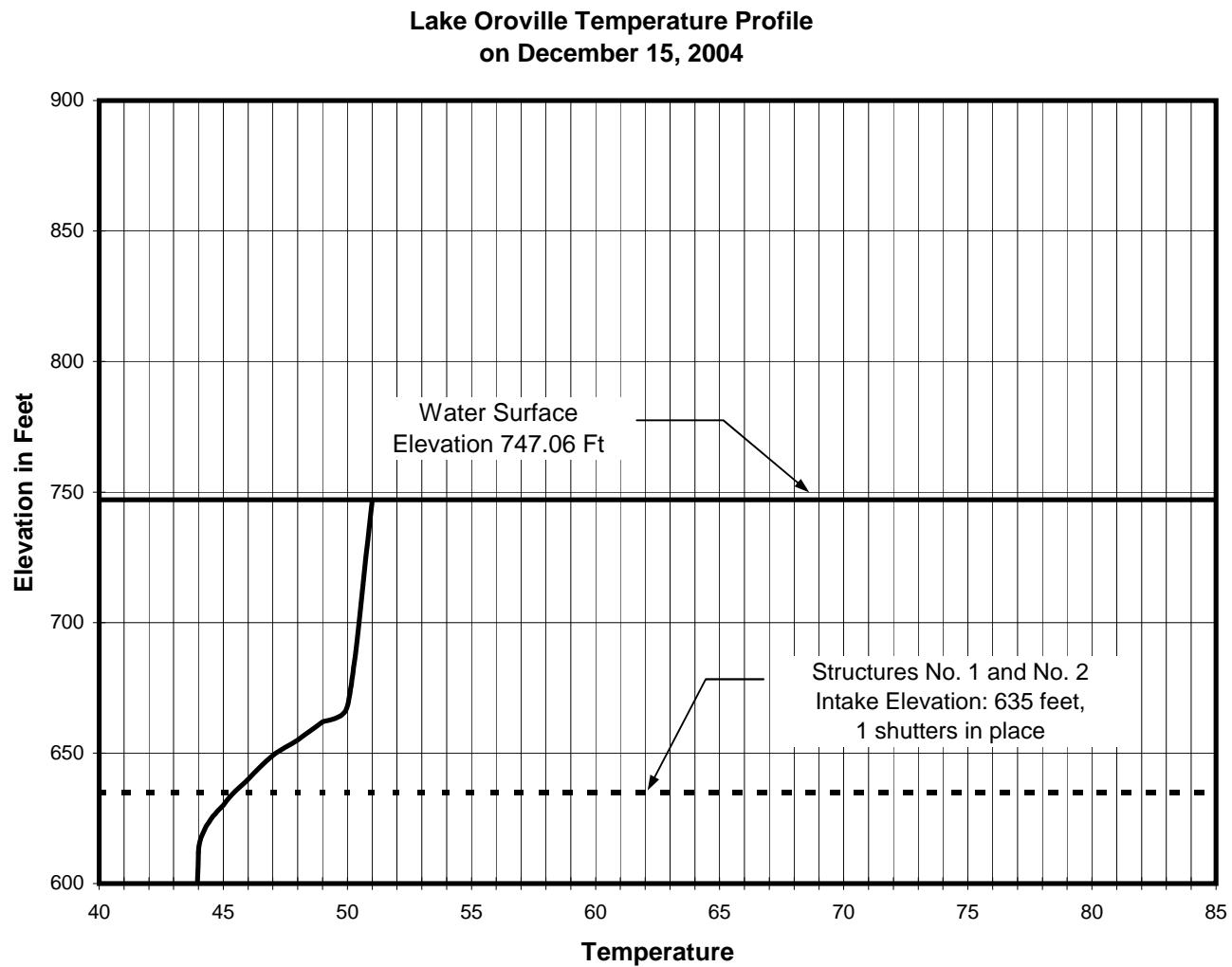
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

December 2004

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	46	50
2	46	50
3	45	50
4	45	50
5	45	49
6	45	49
7	45	49
8	47	48
9	48	48
10	49	48
11	50	49
12	49	49
13	50	48
14	50	48
15	50	48
16	49	48
17	49	48
18	49	48
19	48	48
20	47	47
21	47	47
22	46	48
23	46	48
24	46	49
25	45	48
26	45	48
27	45	47
28	46	47
29	46	48
30	46	48
31	46	46



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount			Permit	Settlement Water		
	No.	Structure	Mile			M & I	Benicia	Vallejo				
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	3,990	100	25	14	402	486		
		Travis Surge Tank	8.78									
			8.80	Solano County Water Agency Travis Turnout	125							
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	416							
				Solano County Water Agency Fairfield / Vacaville 42"	486							
			17.00	Solano County Water Agency Central Solano	Stub							
		Cordelia Forebay	21.23									
3A	2	Cordelia Pumping Plant & Cordelia Spillway	21.30		2,760	1/ 508 807 43 870 1	505 26	26	26	26		
			21.33	Solano County Water Agency Vallejo	1,013							
				Solano County Water Agency Benicia	833							
		Cordelia Surge Tank	23.33									
		Creston Surge Tank Connection	25.65									
			26.95	Napa County Flood Control & WCD American Canyon 2	43							
			27.27	Napa County Flood Control & WCD American Canyon 3	0							
3B	2	Napa Terminal Tank	27.58	City of Napa	870							
			27.60	Napa County Flood Control & WCD American Canyon 1	1							

1/ Includes 8 AF of Napa Co. FC&WCD Table A water through Solano Co.'s turnout in Reach 3A for delivery to American Canyon.

Table 9. Delta Field Division Plant Data

(in acre-feet)

December 2004

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		Gravity Flow Through Plant Into Aqueduct
			Total	SWP		Into Lake	Into Aqueduct	
1	159	95	10,873	10,873	390	0	0	0
2	157	96	7,218	7,218	434	0	0	0
3	165	101	8,092	8,092	394	0	0	0
4	157	113	7,835	7,835	360	0	0	0
5	154	102	7,563	7,563	329	0	0	0
6	159	99	3,888	3,888	318	0	0	0
7	153	94	8,643	8,643	193	0	0	0
8	148	102	9,388	9,388	280	0	0	0
9	136	96	8,509	8,509	275	0	0	0
10	140	98	8,469	8,469	300	0	0	0
11	140	106	3,102	3,102	294	0	0	0
12	126	90	3,692	3,692	307	0	0	0
13	123	92	3,552	3,552	285	0	0	0
14	112	81	3,577	3,577	285	0	0	0
15	112	84	3,598	3,598	285	0	0	0
16	114	86	11,289	11,289	285	0	0	0
17	129	90	12,494	12,494	272	0	0	0
18	134	105	13,518	13,518	305	0	0	0
19	130	95	12,561	12,561	279	0	0	0
20	124	94	10,977	10,977	278	0	0	0
21	112	81	11,767	11,767	297	0	0	2
22	103	62	10,146	10,146	330	0	0	0
23	116	72	9,546	9,546	317	0	0	0
24	139	97	8,664	8,664	331	0	0	0
25	119	84	8,649	8,649	317	0	0	0
26	99	69	8,065	8,065	317	0	0	0
27	112	75	7,540	7,540	292	0	0	0
28	103	62	7,615	7,615	95	0	0	0
29	125	95	8,703	8,703	126	0	0	0
30	122	84	9,796	9,796	101	0	0	0
31	68	60	14,112	14,112	92	0	0	0
Total	3,990	2,760	263,441	263,441	8,763	0	0	2

Table 10. Clifton Court Forebay

Daily Operation of Gates

December 2004

Date	Time						Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	
1	7:00	15:20	20:45	---			7,857
2	---	3:45	6:45	17:00			7,993
3	0:01	2:50	7:30	17:10			7,920
4	0:01	3:40	8:15	16:20			7,921
5	0:01	4:30	9:25	16:12			7,929
6	1:00	5:10	11:03	14:20			3,952
7	2:30	8:45	15:00	20:00			8,708
8	0:15	7:35	15:30	20:10			8,721
9	1:00	8:40	16:15	20:05			8,724
10	1:45	11:15	17:00	20:10			8,706
11	2:30	9:40	17:30	19:00			5,343
12	4:15	9:20					3,757
13	0:01	0:55	4:30	9:20			3,767
14	0:01	0:55	5:35	12:15	20:00	20:30	3,750
15	0:01	0:50	6:35	13:55	21:00	23:35	3,771
16	0:03	1:05	6:30	14:50	22:00	---	8,185
17	---	3:30	7:30	18:00	23:00	---	10,859
18	---	5:15	8:15	19:30			12,251
19	0:30	6:00	9:00	19:00			14,237
20	1:45	8:00	14:30	20:45	23:45	---	10,998
21	---	12:00	15:15	20:35			11,939
22	0:30	8:50	10:55	13:00	16:45	19:20	9,910
23	1:30	13:45	16:30	18:45			9,911
24	2:00	14:30					8,901
25	2:45	15:15					8,348
26	3:15	13:30					8,323
27	0:01	0:45	3:45	10:55			7,906
28	0:01	1:15	5:00	13:30			8,906
29	0:01	2:00	5:00	13:45			8,919
30	0:01	2:30	5:30	14:15			10,507
31	0:01	3:00	6:00	16:30			10,904
							259,823

Table 11. Governor Edmund G. Brown California Aqueduct

Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Local	Loan Water	Advanced Table A Water		
	No.	Structure	Mile									
1		Banks Pumping Plant	3.32		263,441							
2A	1	South Bay Pumping Plant	4.49	Bethany Reservoir Inlet	8,763							
		Check No. 1	5.95									
			8.08	Alameda Co. Zone 7 WA Mountain House Golf Course	0							
		Check No. 2	12.01									
	3		12.47	Musco Olive	7							
		Check No. 3	18.29									
	4		22.16	Tracy Golf & Country Club	0							
		Check No. 4	23.99									
	5	Check No. 5	29.73									
	6	Check No. 6	34.24									
	7		35.22	Turlock Fruit Company Inflow	0							
		Check No. 7	39.91									
2B	8		42.46	Oak Flat Water District-A	0							
			42.9	Western Hills WD	2							
			43.81	Oak Flat Water District-B	1							
			44.64	Oak Flat Water District-C	0							
		Check No. 8	45.97									
	9		46.18	Oak Flat Water District-D	0							
				Oak Flat Totals:	1	0	0	0	0	1		
	Check No. 9	51.3										
	10	Check No. 10	56.86									
	11	Check No. 11	61.4									
	12		66.14	Veteran's Cemetery	1							
		Check No. 12	66.71		255,610							

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Table A Amount	Purchase Pool A	Purchase Pool B	Local	Recre-ation		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	8,763	1	1,187	3	1,366	2		
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	1							
		Check No. 1	3.91									
	2	Check No. 2	5.21									
2	3		7.21	Zone 7 Altamont	0	3	218	3	1,110	3		
		Check No. 3	9.49	Zone 7 Patterson Inflow Exchange	0							
				Zone 7 Patterson Project Water	3							
4	6	4	Check No. 4	10.68		1,187	1,187	1,187	1,187	2		
		5	Check No. 5	12.29								
				13.55	Zone 7 Wente #1							
				14.16	Zone 7 Wente #2							
				14.31	Ising Project Water							
	7	Check No. 6	14.65									
				14.78	Zone 7 Arroyo Mocho Project Water							
	8	Check No. 7	16.38									
	8			16.57	Zone 7 Wente #3							
				16.69	Zone 7 Norman Nursery							
				16.70	Zone 7 Concannon Project Water							
5	8	Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	0	7	7	7	7	3		
				(Flow into South Bay Aqueduct)	2							
				Arroyo Valle #1 & #2 Inflow Released	2							
				Arroyo Valle #1 & #2 Inflow Exchange	218							
				Lake Del Valle Recreation	3							
6	8			Zone 7 Wente #5	7	5	5	5	5	2		
				So. Livermore Project	1,366							
				So. Livermore Inflow Released	0							
				So. Livermore Stored Exchanged	0							
7	8			19.21 Zone 7 - Kalthrof Detjens	5	134	134	134	134	218		
				22.50 ACWD Vallecitos Project Water	134							
				25.97 City of San Francisco San Antonio	0							
8	8			ACWD - Bayside 1 & 2 Project Water: Inflow Released	1,110	4,722	4,722	4,722	4,722	3		
				Inflow Exchange:	0							
9		Mission Tunnel	28.97	S.C.V.W.D. Meter	4,722							
		Santa Clara Pipeline	35.86									

Table 13. Lake Del Valle

Daily Operation

(in acre-feet except as noted)

December 2004

Capacity: 77,106 ac-ft

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)	
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow		
Nov 30	679.64	25,599										
1	679.63	25,594	-5	-3	0	0	0	0	2	2	0.00	
2	679.62	25,589	-5	-4	0	0	0	0	1	1	0.00	
3	679.61	25,584	-5	-1	0	0	0	0	4	4	0.00	
4	679.61	25,584	0	3	0	0	0	0	3	3	0.00	
5	679.59	25,574	-10	-9	0	0	0	0	1	1	0.00	
6	679.58	25,569	-5	-3	0	0	0	0	2	2	0.00	
7	679.61	25,584	15	16	0	0	0	0	1	1	0.21	
8	679.62	25,589	5	6	0	0	0	0	1	1	0.20	
9	679.63	25,594	5	6	0	0	0	0	1	1	0.08	
10	679.63	25,594	0	1	0	0	0	0	1	1	0.02	
11	679.63	25,594	0	1	0	0	0	0	1	1	0.00	
12	679.62	25,589	-5	-4	0	0	0	0	1	1	0.00	
13	679.62	25,589	0	1	0	0	0	0	1	1	0.00	
14	679.62	25,589	0	1	0	0	0	0	1	1	0.00	
15	679.62	25,589	0	1	0	0	0	0	1	1	0.00	
16	679.62	25,589	0	2	0	0	0	0	2	2	0.00	
17	679.63	25,594	5	6	0	0	0	0	1	1	0.00	
18	679.62	25,589	-5	0	0	0	0	0	5	5	0.00	
19	679.60	25,579	-10	-9	0	0	0	0	1	1	0.00	
20	679.60	25,579	0	1	0	0	0	0	1	1	0.00	
21	679.61	25,584	5	7	0	0	0	0	2	2	0.00	
22	679.60	25,579	-5	-1	0	0	0	0	4	4	0.00	
23	679.59	25,574	-5	0	0	0	0	0	5	5	0.00	
24	679.59	25,574	0	2	0	0	0	0	2	2	0.00	
25	679.59	25,574	0	2	0	0	0	0	2	2	0.00	
26	679.58	25,568	-6	-6	0	0	0	0	0	0	0.00	
27	679.67	25,615	47	49	0	0	0	0	2	2	0.06	
28	679.70	25,630	15	17	0	0	0	0	2	2	0.74	
29	679.74	25,650	20	21	0	0	0	1	0	1	0.11	
30	680.60	26,093	443	449	0	0	1	1	4	6	0.92	
31	683.82	27,814	1,721	1,724	0	0	1	1	1	3	0.90	
Total				2,215	2,276	0	0	2	3	56	61	3.24

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

December 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity 56,430 ac-ft

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/		
Nov 30	223.29	51,821											
1	223.50	52,384	563	0	3,554	234	5,422	0	4,924	3,928	3	-71	
2	222.88	50,726	-1,658	0	3,658	0	3,582	0	4,636	3,392	2	-46	
3	222.30	49,182	-1,544	0	3,676	0	3,675	0	4,610	3,541	2	24	
4	221.99	48,360	-822	0	3,740	0	3,808	0	4,101	3,997	2	138	
5	219.51	41,887	-6,473	0	3,635	0	4,108	0	6,341	4,597	2	-66	
6	219.59	42,093	206	0	3,705	0	1,417	0	2,357	2,684	2	25	
7	221.59	47,309	5,216	0	1,978	0	4,147	0	898	2,518	2	-77	
8	221.74	47,703	394	0	1,456	945	4,879	0	3,722	3,303	2	-54	
9	220.66	44,870	-2,833	0	1,215	0	4,285	0	3,367	3,285	2	-274	
10	219.82	42,686	-2,184	0	1,150	0	4,170	0	3,509	3,274	2	364	
11	219.93	42,971	285	0	2,378	1,733	1,353	0	2,208	3,270	2	160	
12	218.93	40,407	-2,564	0	3,541	0	1,587	0	2,314	3,944	2	-161	
13	221.40	46,810	6,403	0	3,715	3,257	1,553	0	1,509	3,700	2	-86	
14	220.87	45,420	-1,390	0	3,773	938	1,614	0	3,802	3,294	2	72	
15	220.40	44,192	-1,228	0	3,701	1,014	1,883	0	3,783	3,340	2	-92	
16	221.17	46,206	2,014	0	3,743	0	5,411	0	4,770	3,386	2	19	
17	222.47	49,634	3,428	0	3,868	0	5,989	0	4,966	3,145	2	-16	
18	223.13	51,393	1,759	0	3,902	0	6,810	0	5,937	4,047	2	161	
19	218.34	38,920	-12,473	0	3,899	0	6,333	0	11,833	4,873	2	188	
20	219.11	40,864	1,944	0	3,543	0	5,851	0	4,947	3,367	2	-98	
21	221.35	46,679	5,815	0	3,281	0	5,517	0	2,603	3,161	2	-100	
22	221.26	46,442	-237	0	3,365	0	4,634	0	4,242	3,903	2	29	
23	222.05	48,517	2,075	0	3,317	0	4,763	0	3,687	3,408	2	63	
24	222.21	48,942	425	0	3,351	0	4,243	0	3,685	3,508	2	-185	
25	219.95	43,023	-5,919	0	3,214	0	3,992	0	6,433	3,884	2	129	
26	219.84	42,738	-285	0	3,067	0	4,192	0	3,831	3,543	2	-27	
27	220.55	44,583	1,845	0	2,986	0	3,534	0	2,901	2,858	2	171	
28	220.81	45,263	680	0	3,035	0	4,095	0	3,769	3,084	2	68	
29	220.17	43,593	-1,670	0	2,947	0	3,945	0	5,281	2,353	2	-98	
30	221.51	47,099	3,506	0	3,199	0	4,515	0	4,477	1,487	2	20	
31	223.36	52,009	4,910	0	3,466	0	7,562	0	7,289	1,375	2	113	
Total				188	0	99,058	8,121	128,869	0	132,732	103,449	63	293
Mean cfs				---	0	3,195	262	4,157	0	4,282	3,337	2	9
Acre-feet				188	0	196,481	16,109	255,610	0	263,276	205,188	125	577

1/ Pump-in located at Mile 79.67R.

2/ Includes 71 AF delivered to DFG at O'Neill Forebay, 1 AF to P&R Cattle, and 53 AF to SLWD.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

December 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Nov 30	458.49	1,057,649						
1	459.30	1,065,919	8,270	4,924	234	189	0	-332
2	460.17	1,074,824	8,905	4,636	0	26	0	-120
3	460.98	1,083,137	8,313	4,610	0	89	0	-330
4	461.71	1,090,646	7,509	4,101	0	139	0	-176
5	462.84	1,102,304	11,658	6,341	0	147	0	-317
6	463.23	1,106,337	4,033	2,357	0	174	0	-150
7	463.45	1,108,614	2,277	898	0	38	0	288
8	463.95	1,113,795	5,181	3,722	945	0	0	-165
9	464.56	1,120,126	6,331	3,367	0	0	0	-175
10	465.19	1,126,678	6,552	3,509	0	0	0	-206
11	465.26	1,127,406	728	2,208	1,733	86	0	-22
12	465.64	1,131,364	3,958	2,314	0	130	0	-189
13	465.25	1,127,302	-4,062	1,509	3,257	131	0	-169
14	465.60	1,130,948	3,646	3,802	938	142	0	-884
15	466.08	1,135,953	5,005	3,783	1,014	161	0	-85
16	466.88	1,144,312	8,359	4,770	0	179	0	-377
17	467.72	1,153,110	8,798	4,966	0	176	0	-354
18	468.73	1,163,717	10,607	5,937	0	177	0	-412
19	470.84	1,185,978	22,261	11,833	0	182	0	-428
20	471.69	1,194,983	9,005	4,947	0	169	0	-238
21	472.11	1,199,441	4,458	2,603	0	106	0	-249
22	472.80	1,206,776	7,335	4,242	0	176	0	-368
23	473.41	1,213,272	6,496	3,687	0	178	0	-234
24	474.01	1,219,673	6,401	3,685	0	180	0	-278
25	475.12	1,231,543	11,870	6,433	0	165	0	-284
26	475.74	1,238,188	6,645	3,831	0	152	0	-329
27	476.24	1,243,580	5,392	2,901	0	156	0	-27
28	476.89	1,250,577	6,997	3,769	0	207	0	-34
29	477.81	1,260,502	9,925	5,281	0	195	0	-82
30	478.61	1,269,154	8,652	4,477	0	187	0	72
31	479.90	1,283,146	13,992	7,289	0	211	1	-23
Total			225,497	132,732	8,121	4,248	1	-6,677
Mean cfs			---	4,282	262	137	0	-215
Acre-feet			225,497	263,276	16,109	8,424	1	-13,245

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 7,592 AF, San Benito: 832 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

December 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	7,791	7,791	464	464	9,766	5,271	374
2	6,728	6,728	0	0	9,195	1,359	51
3	7,024	7,024	0	0	9,144	1,354	177
4	7,929	7,929	0	0	8,134	1,112	275
5	9,118	9,118	0	0	12,577	-101	291
6	5,324	4,352	0	0	4,676	-55	346
7	4,995	4,026	0	0	1,781	11	76
8	6,552	5,569	1,874	1,874	7,383	4,154	0
9	6,515	5,524	0	0	6,678	5,007	0
10	6,493	6,493	0	0	6,961	2,291	0
11	6,486	6,486	3,438	3,438	4,379	-333	170
12	7,822	7,822	0	0	4,590	53	258
13	7,338	7,338	6,460	6,460	2,994	-192	259
14	6,533	6,533	1,861	1,861	7,541	-183	281
15	6,624	6,624	2,012	2,012	7,503	-180	319
16	6,717	6,717	0	0	9,462	2,471	356
17	6,239	4,954	0	0	9,851	3,709	349
18	8,028	6,719	0	0	11,777	5,619	352
19	9,665	8,458	0	0	23,470	11,214	361
20	6,678	5,450	0	0	9,813	6,439	335
21	6,270	5,014	0	0	5,164	71	210
22	7,741	6,432	0	0	8,414	3,802	349
23	6,759	5,695	0	0	7,314	2,756	353
24	6,958	5,689	0	0	7,309	1,262	357
25	7,703	6,421	0	0	12,759	5,967	328
26	7,028	5,821	0	0	7,598	3,225	302
27	5,669	4,408	0	0	5,754	3,445	310
28	6,117	4,866	0	0	7,476	2,639	410
29	4,668	3,421	0	0	10,475	4,549	387
30	2,949	1,739	0	0	8,881	4,818	370
31	2,727	1,503	0	0	14,457	10,605	418
Total	205,188	182,664	16,109	16,109	263,276	92,159	8,424

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations
December 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity 34,560 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Nov 30	323.26	18,504					
1	323.26	18,504	0	0	0	0	0
2	323.25	18,499	-5	0	0	0	-5
3	323.25	18,499	0	0	0	0	0
4	323.26	18,504	5	3	0	0	-1
5	323.25	18,499	-5	0	0	0	-5
6	323.23	18,491	-8	0	0	0	-8
7	323.27	18,508	17	9	0	0	-1
8	323.27	18,508	0	0	0	0	0
9	323.27	18,508	0	0	0	0	0
10	323.27	18,508	0	0	0	0	0
11	323.27	18,508	0	0	0	0	0
12	323.26	18,504	-4	0	0	0	-4
13	323.26	18,504	0	0	0	0	0
14	323.26	18,504	0	0	0	0	0
15	323.25	18,499	-5	0	0	0	-5
16	323.24	18,495	-4	0	0	0	-4
17	323.24	18,495	0	0	0	0	0
18	323.24	18,495	0	0	0	0	0
19	323.24	18,495	0	0	0	0	0
20	323.24	18,495	0	0	0	0	0
21	323.23	18,491	-4	0	0	0	-4
22	323.22	18,486	-5	0	0	0	-5
23	323.22	18,486	0	0	0	0	0
24	323.20	18,477	-9	0	0	0	-9
25	323.20	18,477	0	0	0	0	0
26	323.22	18,486	9	5	0	0	-1
27	323.26	18,504	18	9	0	0	0
28	323.26	18,504	0	0	0	0	0
29	323.30	18,522	18	9	0	0	0
30	323.42	18,575	53	27	0	0	0
31	325.24	19,393	818	412	0	0	1
Total			889	474	0	0	-51
Mean cfs			---	15	0	0	---
Acre-feet			889	940	0	0	-51

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

December 2004

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

Capacity: 5,580 ac-ft

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Nov 30	600.20	694					
1	Not Observed				0	0	
2	600.20	694			0	0	
3	Not Observed				0	0	
4	Not Observed				0	0	
5	600.25	697	3	2	0	0	-1
6	Not Observed				0	0	
7	600.30	699	2	1	0	0	0
8	Not Observed				0	0	
9	600.40	704	5	3	0	0	-1
10	600.40	704			0	0	
11	600.40	704			0	0	
12	600.40	704			0	0	
13	Not Observed				0	0	
14	600.50	709	5	3	0	0	-1
15	Not Observed				0	0	
16	Not Observed				0	0	
17	Not Observed				0	0	
18	600.55	712	3	2	0	0	-1
19	600.55	712			0	0	
20	600.60	715	3	2	0	0	-1
21	600.60	715			0	0	
22	600.60	715			0	0	
23	600.60	715			0	0	
24	600.65	717	2	1	0	0	0
25	Not Observed				0	0	
26	600.80	725	8	4	0	0	0
27	Not Observed				0	0	
28	600.90	731	6	3	0	0	0
29	Not Observed				0	0	
30	Not Observed				0	0	
31	601.05	739	8	4	0	0	0
Total			45	25	0	0	-5
Mean cfs			---	3	0	0	---
Acre-feet			45	50	0	0	-5

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries

(In acre-feet)

December 2004											
Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		255,610						
3A		San Luis Reservoir		Department of Parks and Recreation	1	7,592		1			
				San Felipe Division Santa Clara Water District	7,592						
				San Felipe Division San Benito Water District	832	832					
				Department of Parks and Recreation							
3	13	O'Neill Forebay	70.85	Cattle Program	1			1			
				Department of Fish & Game	71			39	32		
				San Luis Water District	53	53					
			70.91 Thru 85.08	(Floodwater Inflow)	0						
				Reach 3 Subtotal:	125	53	0	40	32		
		Dos Amigos Pumping Plant	86.73		205,188						
		14	89.03	San Luis Water District	46	46					
			Thru 94.06								
			89.66	Pacheco Water District	124		124				
			Thru 89.67								
			89.68	Panoche Water District	35						
4	15	Check No. 14	89.70	City of Dos Palos	69	69					
			95.06								
			98.15	San Luis Water District	189		189				
			Thru 104.20								
			96.15	Panoche Water District	170						
			Thru 102.64	(Floodwater Inflow)	0	170					
			102.64	Broadview Water District	2						
			105.22	Westlands Water District	1,809						
			Thru 108.64								
			108.50								
			San Felipe Division Total:	8,425	8,424	0	1	0			
			Pacheco Water District Total:	124	124	0	0	0			
			Broadview Water District Total:	2	2	0	0	0			
			City of Dos Palos Total:	69	69	0	0	0			
			SLWD Reach 4 Subtotal:	288	288	0	0	0			
			Panoche Water District Total:	205	205	0	0	0			
			SLWD Total:	288	288	0	0	0			
			Westlands WD Reach 4 Subtotal:	1,809	1,809	0	0	0			

Table 19b. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

Reach No.	Operating Pool			Turnout	Total Diversions	December 2004							
	Beginning and Ending					Deliveries							
	No.	Structure	Mile			USBR	Transfer	DWR Recreation	USBR Recreation				
5	16		110.52	(Reverse flow, Kings River)	0	2,115	99	81					
			Thru	Westlands Water District	2,115								
			122.05	Department of Fish and Game	180								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	2,957	2,957	1/ 450						
			Thru										
			132.74										
	Check No. 17		132.95										
	18		133.81	Westlands Water District	2,427	1,977	1/ 450						
			Thru										
			142.61			1,150	361						
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	1,150								
			143.16	City of Coalinga	361								
	Check No. 18		143.23										
				Westlands WD Reach 5 Subtotal:	8,649	8,199	450	0	0				
6	19		145.26	Westlands Water District	4,190	3,663	2/ 527						
			Thru										
			151.19	Westlands Water District Lemoore Naval Air Station	103		3/ 103						
		Check No. 19	155.64										
				Westlands WD Reach 6 Subtotal:	4,190	3,663	527	0	0				
7	20		156.34	City of Huron	51	51	4/ 2						
			156.40	SWP Construction @ Lat. 24R	2								
			Thru	Westlands Water District	4,386								
		Check No. 20	163.69										
	21		164.69			186	905						
			164.79	City of Avenal	186								
			167.04	Westlands Water District	905								
			171.67										
	Check No. 21		172.40		169,736								
				Reach 7 Total:	5,528	5,528	0	0	0				
				SWP Construction	2	0	2	0	0				
				Westlands WD Total:	19,939	18,962	977	0	0				
				City of Coalinga Total:	361	361	0	0	0				
				Kings County to Lemoore N.A.S. through Westlands @29L & 30L	103	0	103	0	0				
				City of Huron Total:	51	51	0	0	0				
				City of Avenal Total:	186	186	0	0	0				
				Total San Luis Field Division Deliveries:	30,007	28,672	1,082	140	113				

1/ Common Landowner Transfer from Tulare Lake Basin WSD.

2/ Long-term POD from County of Kings.

3/ Westlands Water District transferred 103 AF from County of Kings to Lemoore N.A.S.

4/ SWP water pumped at Banks and delivered through WWD turnout for construction at Arroyo Pasajero.

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
December 2004

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project	Dos Amigos Pumping Plant	San Luis Water District 2/	Panoche Water District	Westlands Water District 3/	Flow Past Check 21	
Nov 30	27,070								
1	28,168	1,098	0	3,928	13	6	315	2,899	-141
2	27,372	-796	0	3,392	16	2	432	3,172	-171
3	27,775	403	0	3,541	16	2	432	2,658	-230
4	27,976	201	0	3,997	16	2	432	3,141	-305
5	28,543	567	0	4,597	16	2	432	2,738	-1,123
6	27,011	-1,532	0	2,684	16	2	432	2,846	-160
7	27,112	101	0	2,518	16	2	432	2,048	31
8	27,186	74	0	3,303	17	8	433	2,932	124
9	27,568	382	0	3,285	5	6	398	2,435	-248
10	27,606	38	0	3,274	5	6	398	2,254	-592
11	27,417	-189	0	3,270	5	6	398	2,745	-211
12	27,541	124	0	3,944	5	6	398	3,533	61
13	27,939	398	0	3,700	5	6	398	2,725	-365
14	28,035	96	0	3,294	5	6	398	2,480	-357
15	27,988	-47	0	3,340	11	7	398	2,764	-184
16	27,978	-10	0	3,386	3	4	397	2,595	-392
17	27,338	-640	0	3,145	3	4	397	2,838	-226
18	27,761	423	0	4,047	3	4	397	3,201	-229
19	28,268	507	0	4,873	3	4	397	4,070	-143
20	28,643	375	0	3,367	3	4	397	2,863	89
21	27,990	-653	0	3,161	3	4	397	3,151	65
22	28,318	328	0	3,903	4	5	398	3,015	-316
23	27,936	-382	0	3,408	3	0	174	2,846	-578
24	28,420	484	0	3,508	3	0	174	2,779	-308
25	28,368	-52	0	3,884	3	0	174	3,436	-297
26	28,301	-67	0	3,543	3	0	174	3,258	-142
27	28,460	159	0	2,858	3	0	174	2,563	-38
28	28,827	367	10	3,084	3	0	174	2,730	-2
29	28,621	-206	13	2,353	7	0	177	2,276	-10
30	28,094	-527	2	1,487	1	2	188	1,496	-68
31	28,213	119	51	1,375	1	3	188	1,083	-91
Total		1,143	76	103,449	216	103	10,503	85,570	-6,556
Mean cfs		---	2	3,337	7	3	339	2,760	-211
Acre-feet		1,143	151	205,188	428	205	20,833	169,736	-12,994

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Includes 123 AF AG & 1 AF M&I to Pacheco W.D. and 69 AF to the City of Dos Palos.

3/ Includes 51 AF to the City of Huron, 186 AF to the City of Avenal, 361 AF to the City of Coalinga, 103 AF to Lemoore N.A.S. @ 30L, 2 AF to Broadview WD, 2 AF to SWP contruction @ 24R, 89 AF to DFG for Pilipos Wild Life Refuge, and 1 AF to F&G Lateral 4L @ WWD Lateral 4L, and 20,038 AF to WWD.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

December 2004

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	81	81	69	64	71	5,537	5,570	5,450	5,457
2	108	108	97	89	99	5,839	5,907	5,702	5,631
3	86	86	71	65	74	5,276	5,323	5,144	5,105
4	90	90	80	75	80	6,064	6,085	5,947	6,258
5	100	100	96	89	101	6,751	6,922	6,756	6,736
6	85	85	62	56	63	5,103	5,148	4,948	4,977
7	123	123	101	95	101	4,957	5,440	5,261	5,226
8	92	92	72	66	74	5,117	5,462	5,314	5,284
9	114	114	99	95	101	5,544	5,808	5,565	5,484
10	130	130	88	89	89	4,933	5,230	5,065	5,103
11	122	122	90	83	90	5,419	5,712	5,469	5,484
12	123	123	100	95	103	6,687	7,038	6,726	6,796
13	77	77	63	60	59	5,472	6,380	5,633	5,586
14	112	112	92	86	93	5,063	6,005	5,478	5,479
15	124	124	92	86	94	5,598	6,013	5,711	5,687
16	100	100	90	83	92	5,295	5,700	5,445	5,466
17	93	93	72	67	73	5,086	5,361	5,189	5,383
18	120	120	60	55	64	5,923	6,407	6,169	6,124
19	155	155	94	88	99	7,560	7,900	7,632	7,735
20	99	99	69	65	70	5,611	5,984	5,719	5,687
21	136	136	84	78	85	6,037	6,426	6,177	6,369
22	145	145	86	81	88	6,300	6,785	6,574	6,468
23	117	117	86	80	88	6,188	6,578	6,349	6,368
24	67	67	54	49	55	6,190	6,550	6,350	6,812
25	77	77	52	47	53	7,670	8,048	7,711	7,735
26	90	90	55	49	55	6,911	7,339	7,129	7,171
27	70	70	74	68	75	5,598	6,103	5,908	5,891
28	93	93	56	51	57	5,329	5,642	5,350	5,411
29	58	58	60	55	61	4,856	5,082	4,615	4,880
30	31	31	44	41	44	3,530	3,715	3,567	3,667
31	40	40	37	34	39	2,402	2,730	2,605	2,594
Total	3,058	3,058	2,345	2,184	2,390	173,846	184,393	176,658	178,054

Table 22a. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	USBR	Purchase Pool A	Purchase Pool B	Dry Year Purchase		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		169,736							
8C	22				Empire West Side Irrig. Dist. TL - A	700	700					
					County of Kings TL - A	130	130					
					TLBWSD TL-A	594	594					
					175.18 DRWD - 1	0						
					177.54 DRWD - 1B	0						
					180.64 TLBWSD - C	0						
					180.65 DRWD - 1A	32	32					
					182.99 DRWD - 2	4	4					
					183.00 Tulare Lake Basin WSD TL - B	0						
					184.00 DRWD - Paramount	2	2					
31A					184.63 Coastal Branch	3,058						
8D					184.78 Dudley Ridge Water Dist. DRWD - 3	0						
					Dudley Ridge Reach 8D Total:	38	38	0	0	0		
					Tulare Lake Basin WSD Total:	594	594	0	0	0		
					Check No. 22	184.82						
9	23				189.69 Kern County Water Agency Lost Hills Water Dist. - 1	25	25					
					191.18 Kern County Water Agency Lost Hills Water Dist. - 2	0						
					194.22 Kern County Water Agency Lost Hills Water Dist. - 3	0						
					196.40 Kern County Water Agency Berrenda Mesa - 2	0						
					196.75 Kern County Water Agency Lost Hills Water Dist. - 4	0						
					K.C.W.A. Reach 9 Subtotal:	25	25	0	0	0		
					Check No. 23	197.05						
					201.24 Kern County Water Agency Lost Hills Water Dist. - 7	20	20					
					202.05 Kern County Water Agency Lost Hills Water Dist. - 5	58	58					
					204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0						
10A	24				205.26 Kern County Water Agency Lost Hills Water Dist. - 8	2	2					
					Check No. 24	207.94						
					209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	5	5					
					209.78 Kern National Wildlife Refuge USBR BV-1B	3,410	3,410					
						0						
					209.80 Kern County Water Agency Buena Vista WSD 1B	89	89					
						0						
					KCWA Semitropic WSD	89	89					
						0						
					KCWA Semitropic WSD Penstocks	0	0					
						0						
					USBR Total:	3,410	0	3,410	0	0		
						174	174	0	0	0		
					K.C.W.A. Reach 10A Subtotal:	174						

Table 22b. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recovery of Pump In	Carryover Article 55 Water	Purchase Pool B	MWD Ent.		
	No.	Structure	Mile									
11B	25		210.75	Kern County Water Agency Belridge - 2	0	106						
			214.11	Kern County Water Agency Belridge - 3	0							
			216.62	Kern County Water Agency Belridge - 4	0							
			217.13	Kern County Water Agency Belridge - 5	106	323						
				Kern County Water Agency Belridge - 5D	323							
		Check No. 25	217.79									
				K.C.W.A. Reach 11B Subtotal:	429	429	0	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	274						
				Kern County Water Agency West Kern - 3	274							
		Check No. 26	224.92									
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0							
				Check No. 27	231.73							
			235.75	Kern County Water Agency Buena Vista - 2	0							
				Kern County WA CVC	0							
			238.04	DRWD CVC	0							
	28			Tulare Co.	0							
				Lower Tule River	0							
				Fresno Co.	0							
				Pixley ID	0							
				Hacienda								
				DWR Wells	0							
		Check No. 28	238.11									
				1/ Arvin Edison Total:	0	0	0	0	0	0		
				Reach 12E Subtotal:	0	0	0	0	0	0		
13B	29		238.19	Kern Water Bank Inflow	0							
				Kern Water Bank Outflow	0							
			241.02	Kern River Intertie (inflow)	0							
			242.85	KCWA Buena Vista WSD - 7	0							
			243.09	KCWA Buena Vista WSD - 5	0							
				Kern County Water Agency Buena Vista - 3	302							
		Check No. 29	244.54	Buena Vista WSD	0							
	30		249.85	Kern County Water Agency Buena Vista - 4	564							
		Buena Vista Pumping Plant	250.99		173,846							
				K.C.W.A. Reach 13B Subtotal:	866	0	0	866	0	0		
14A	31		254.47	Kern County Water Agency West Kern - 2	0	13						
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	13							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct
 San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Table A Amount	Recovery of Pump In	Carryover Article 55 Water	Purchase Pool B	MWD Ent.			
	No.	Structure	Mile										
14A	31	Check No. 31	256.14			16	16	0	0	0			
	32		258.61		Kern County Water Agency Wheeler Ridge-Maricopa - 3		16						
			260.44		Kern County Water Agency Wheeler Ridge-Maricopa - 4		190						
		Check No. 32	261.72										
					KCWA Reach 14A Subtotal:	219	219	0	0	0			
14B	33		264.42		Kern County Water Agency Wheeler Ridge-Maricopa - 5	384	384	0	0	0			
			266.91		Kern County Water Agency Wheeler Ridge-Maricopa - 6		266						
		Check No. 33	267.36										
	34		270.24		Kern County Water Agency Wheeler Ridge-Maricopa - 7	376	376	0	0	0			
			271.27										
			Reach 14B Total:		1,026	1,026	1,026	0	0	0			
14C	35		272.39		Kern County Water Agency Wheeler Ridge-Maricopa - 8	346	346	0	0	0			
			276.09		Kern County Water Agency Wheeler Ridge-Maricopa - 9		502						
			Reach 14C Total:		848	848	848	0	0	0			
15A	Teerink Pumping Plant		278.13			184,393		0	0	0			
	36		279.02		Kern County Water Agency Wheeler Ridge-Maricopa - 9A	2	2						
			280.06		Kern County Water Agency Wheeler Ridge-Maricopa - 10		476						
			Reach 15-A Total:		478	478	478	0	0	0			
	Chrisman Pumping Plant		280.36			176,658		0	0	0			
16A	37		282.06		Kern County Water Agency Wheeler Ridge-Maricopa - 11	0							
			283.95										
	38		285.01		Kern County Water Agency Wheeler Ridge-Maricopa - 12	12	12	0	0	0			
			286.39		Kern County Water Agency Wheeler Ridge-Maricopa - 13A		38						
			287.06		Kern County Water Agency Wheeler Ridge-Maricopa - 13		0						
	Check No. 38		287.09					0	0	0			
16A	39		287.62		Kern County Water Agency Wheeler Ridge-Maricopa - 13B	18	18						
			290.21										
	40		291.26		Kern County Water Agency Wheeler Ridge-Maricopa - 14	1	1						
			293.07		Kern County Water Agency Wheeler Ridge-Maricopa - 15		0						
			Kern County Water Agency Tehachapi Cummings CWD		0								
17E				K.C.W.A. Reach 16A Subtotal:		69	69	0	0	0			
	Edmonston Pumping Plant		293.45			178,054		0	0	0			

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Recovery of Pump In	Carryover Article 55 Water	Purchase Pool B	MWD Ent.		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02	Green Valley Water District	3,058	753	0	0	0	0		
		Las Perillas Pumping Plant	1.16		3,058							
	C-2		3.79		0							
		Badger Hill Pumping Plant	4.27		3,058							
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34		Castaic Lake WA (Devil's Den WD #1)							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	0							
			14.83	Kern County Water Agency Berrenda Mesa - 1	753							
				Kern County Water Agency Berrenda Mesa - PO	0							
		Devil's Den Pumping Plant	14.86		2,345							
				K.C.W.A. Reach 31A Subtotal:	753	753	0	0	0	0		
				K.C.W.A. Total:	5,161	4,295	0	866	0	0		
33A	C-7	Bluestone Pumping Plant	19.05		2,184	1,995	333	0	0	0		
	C-8	Polonio Pass Pumping Plant	26.54		2,390							
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant								
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	1,995							
		Tank Site 2	58.63	Central Coast:	0							
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	333	2,328	0	0	0	0		
		Energy Dissipater	78.12									
35	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0		0	0	0	0		
				CCWA Total:	2,328							
		Guadalupe T.O.	102.70	SBCFC & WCD	0							
		Santa Maria T.O.	107.43	SBCFC & WCD	0							
38		So. Cal. Water T.O.	109.20	SBCFC & WCD	0		0	0	0	0		
				SBCFC & WCD Total:	0							
		Tank Site 5	115.42									

Table 24. Southern Field Division Plant Data

(in acre-feet)

December 2004

Date	West Branch					East Branch										
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Devil Canyon Powerplant Generation	Cherry Valley	Green Spot	Crafton Hills
		Generation	Bypass	Generation 1/	Pumpback 1/	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume				
1	2,657	3,225	0	2,322	0	2,693	0	112	2,495	2,524	0	0	2,805	0	0	0
2	3,135	3,046	0	2,395	578	2,369	0	48	2,228	2,119	0	0	2,993	5	19	19
3	3,103	3,158	0	2,871	0	2,133	0	0	2,034	1,910	0	0	2,842	5	19	19
4	3,016	3,002	0	1,939	0	2,868	0	60	2,871	2,881	0	0	3,016	0	0	0
5	2,918	2,882	0	498	0	3,471	0	362	3,664	3,563	0	0	2,877	0	0	0
6	2,090	1,867	0	3,523	474	1,328	0	1,587	2,742	2,810	0	0	3,271	4	0	0
7	2,393	2,263	0	4,048	1,000	1,722	0	1,112	2,775	2,786	0	0	2,823	0	0	0
8	2,716	3,175	0	4,198	1,065	2,805	0	0	2,596	2,626	0	0	2,865	0	0	0
9	2,291	2,991	0	1,858	657	3,097	0	0	2,897	2,091	0	0	2,902	0	19	20
10	2,442	2,973	0	6,353	973	2,715	0	0	2,418	2,642	0	0	3,007	0	0	0
11	2,962	2,998	0	3,236	1,285	2,578	0	0	2,677	2,585	0	0	2,939	0	0	0
12	2,803	2,746	0	2,863	1,776	3,562	0	183	3,709	3,665	0	0	2,559	0	0	0
13	4,090	2,597	0	4,204	2,999	1,569	0	8	1,434	1,470	0	0	2,775	2	0	0
14	2,645	3,077	0	3,729	0	2,742	0	51	2,634	2,339	0	0	2,034	5	0	0
15	2,827	2,607	0	4,068	0	1,791	0	1,101	2,686	2,670	0	0	2,730	3	0	0
16	2,714	3,035	0	4,456	676	2,743	0	45	2,914	2,843	0	0	3,117	5	19	20
17	2,709	2,848	0	5,033	550	2,652	0	0	2,615	2,850	0	0	2,953	0	0	0
18	2,730	2,983	0	1,279	773	3,399	0	0	2,979	2,678	0	0	3,083	0	0	0
19	3,567	1,613	0	1,132	1,718	3,727	0	388	3,987	3,630	0	0	3,100	0	0	0
20	2,612	2,674	0	5,883	1,662	3,046	0	44	2,903	3,042	0	0	3,034	0	0	0
21	2,899	2,659	0	6,478	545	3,425	0	8	3,220	3,198	0	0	3,101	5	20	20
22	3,003	2,934	0	4,986	546	3,320	0	76	3,380	3,360	0	0	3,202	0	0	0
23	2,621	3,119	0	2,983	0	3,409	0	289	3,703	3,754	0	0	3,012	1	15	15
24	2,586	2,924	0	4,116	726	3,568	0	216	3,723	3,718	0	0	3,029	0	0	0
25	3,739	2,636	0	0	0	3,644	0	269	3,802	3,661	0	0	3,016	0	0	0
26	2,636	2,790	0	296	0	3,676	0	866	3,987	4,027	0	0	3,081	0	0	0
27	2,702	3,000	0	3,835	1,188	2,814	0	358	3,226	3,444	0	0	2,777	4	11	11
28	2,400	3,048	0	3,453	0	2,854	0	154	3,045	3,159	0	0	2,631	1	13	13
29	2,555	2,026	0	6,571	890	2,331	0	31	2,338	2,298	0	0	1,926	0	0	0
30	2,477	2,787	0	6,068	0	1,318	0	0	1,786	1,912	0	0	1,968	0	0	0
31	1,574	1,805	0	4,686	0	978	0	0	978	1,062	0	0	2,061	0	0	0
Total	85,612	85,488	0	109,360	20,081	84,347	0	7,368	88,446	87,317	0	0	87,529	40	135	137

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1/ Values supplied by LADWP, not verified by DWR.

Table 25. Pyramid Lake

Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			United Water Agency	Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural		
				Castaic Powerplant Pumpback 1/	Warne Powerplant	Stream Flow	Castaic Powerplant Generation 1/	Recreation Deliveries	To Piru Creek		
Nov 30	2569.57	159,245									
1	2570.29	160,138	893	0	3,225	14	2,322	0	12	0	-12
2	2571.18	161,246	1,108	578	3,046	14	2,395	0	12	0	-123
3	2571.39	161,508	262	0	3,158	14	2,871	0	12	0	-27
4	2572.44	162,822	1,314	0	3,002	14	1,939	0	12	0	249
5	2574.36	165,244	2,422	0	2,882	17	498	0	12	0	33
6	2573.39	164,018	-1,226	474	1,867	16	3,523	0	12	0	-48
7	2572.66	163,099	-919	1,000	2,263	16	4,048	0	12	0	-138
8	2572.72	163,174	75	1,065	3,175	16	4,198	0	12	0	29
9	2574.04	164,839	1,665	657	2,991	16	1,858	0	12	0	-129
10	2572.12	162,421	-2,418	973	2,973	16	6,353	0	12	0	-15
11	2572.92	163,426	1,005	1,285	2,998	16	3,236	0	12	0	-46
12	2574.17	165,004	1,578	1,776	2,746	16	2,863	0	12	0	-85
13	2575.16	166,260	1,256	2,999	2,597	16	4,204	0	12	0	-140
14	2574.67	165,638	-622	0	3,077	16	3,729	0	12	0	26
15	2573.45	164,093	-1,545	0	2,607	16	4,068	0	12	0	-88
16	2572.83	163,312	-781	676	3,035	16	4,456	0	12	0	-40
17	2571.56	161,720	-1,592	550	2,848	15	5,033	0	12	0	40
18	2573.46	164,106	2,386	773	2,983	15	1,279	0	12	0	-94
19	2575.15	166,248	2,142	1,718	1,613	14	1,132	0	12	0	-59
20	2573.92	164,687	-1,561	1,662	2,674	14	5,883	0	12	0	-16
21	2571.28	161,370	-3,317	545	2,659	14	6,478	0	12	0	-45
22	2570.03	159,815	-1,555	546	2,934	14	4,986	0	12	0	-51
23	2570.08	159,877	62	0	3,119	14	2,983	0	12	0	-76
24	2569.58	159,258	-619	726	2,924	14	4,116	0	12	0	-155
25	2571.81	162,033	2,775	0	2,636	13	0	0	12	0	138
26	2573.75	164,472	2,439	0	2,790	17	296	0	12	0	-60
27	2574.42	165,320	848	1,188	3,000	447	3,835	0	12	0	60
28	2576.07	167,421	2,101	0	3,048	3,124	3,453	0	12	0	-606
29	2573.59	164,270	-3,151	890	2,026	892	6,571	0	71	0	-317
30	2570.91	160,909	-3,361	0	2,787	356	6,068	0	395	0	-41
31	2569.23	158,825	-2,084	0	1,805	829	4,686	0	395	0	363
Total			-420	20,081	85,488	6,041	109,360	0	1,197	0	-1,473

1/ Values supplied by LADWP, not verified by DWR.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation 1/	Natural	Castaic Powerplant Pumpback 1/	To Castaic Lake			
							Natural	Project 1/		
Nov 30	1512.75	20,258								
1	1518.40	22,564	2,306	2,322	0	0	0	0	-16	
2	1514.85	21,099	-1,465	2,395	0	578	0	3,281	-1	
3	1511.90	19,923	-1,176	2,871	0	0	0	4,049	2	
4	1510.60	19,416	-507	1,939	0	0	0	2,145	-301	
5	1511.30	19,688	272	498	0	0	0	0	-226	
6	1514.10	20,797	1,109	3,523	0	474	0	1,942	2	
7	1512.60	20,199	-598	4,048	0	1,000	0	3,645	-1	
8	1512.60	20,199	0	4,198	0	1,065	0	3,133	0	
9	1508.20	18,498	-1,701	1,858	0	657	0	2,902	0	
10	1514.30	20,877	2,379	6,353	0	973	0	3,001	0	
11	1507.00	18,048	-2,829	3,236	0	1,285	0	4,779	-1	
12	1509.75	19,088	1,040	2,863	0	1,776	0	0	-47	
13	1509.65	19,050	-38	4,204	0	2,999	0	1,243	0	
14	1510.90	19,532	482	3,729	0	0	0	3,246	-1	
15	1511.80	19,883	351	4,068	0	0	0	3,718	1	
16	1512.50	20,159	276	4,456	0	676	0	3,503	-1	
17	1514.10	20,797	638	5,033	0	550	0	3,847	2	
18	1508.30	18,536	-2,261	1,279	0	773	0	2,766	-1	
19	1506.90	18,011	-525	1,132	0	1,718	0	0	61	
20	1513.30	20,476	2,465	5,883	0	1,662	0	1,756	0	
21	1518.00	22,396	1,920	6,478	0	545	0	4,015	2	
22	1517.80	22,313	-83	4,986	0	546	0	4,523	0	
23	1514.90	21,120	-1,193	2,983	0	0	0	4,175	-1	
24	1514.40	20,917	-203	4,116	0	726	0	3,593	0	
25	1510.90	19,532	-1,385	0	0	0	0	0	-1,385	
26	1511.70	19,844	312	296	0	0	0	0	16	
27	1513.70	20,636	792	3,835	0	1,188	0	1,855	0	
28	1513.90	20,716	80	3,453	550	0	550	3,374	1	
29	1518.90	22,774	2,058	6,571	434	890	434	3,628	5	
30	1521.90	24,057	1,283	6,068	190	0	190	4,778	-7	
31	1522.40	24,274	217	4,686	463	0	463	4,317	-152	
Total				4,016	109,360	1,637	20,081	1,637	83,214	-2,049

1/ Values supplied by LADWP, not verified by DWR.

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay /1		Natural	Deliveries		
				Natural	Project				
Nov 30	1486.07	262,777							
1	1484.99	260,641	-2,136	0	0	1	2,042	0	
2	1485.47	261,589	948	0	3,281	2	2,267	0	
3	1486.34	263,312	1,723	0	4,049	2	2,336	0	
4	1486.33	263,293	-19	0	2,145	2	2,308	0	
5	1485.31	261,273	-2,020	0	0	2	2,012	0	
6	1485.28	261,213	-60	0	1,942	2	1,968	0	
7	1486.18	262,995	1,782	0	3,645	2	1,917	0	
8	1486.87	264,366	1,371	0	3,133	2	1,796	0	
9	1487.47	265,560	1,194	0	2,902	2	1,754	0	
10	1488.00	266,618	1,058	0	3,001	2	1,790	0	
11	1489.43	269,484	2,866	0	4,779	2	2,040	0	
12	1488.41	267,438	-2,046	0	0	2	1,988	0	
13	1488.05	266,718	-720	0	1,243	2	1,982	0	
14	1488.61	267,839	1,121	0	3,246	2	2,010	0	
15	1489.45	269,525	1,686	0	3,718	2	1,955	0	
16	1490.08	270,790	1,265	0	3,503	2	2,150	0	
17	1490.84	272,322	1,532	0	3,847	2	2,267	0	
18	1491.06	272,766	444	0	2,766	2	2,320	0	
19	1489.89	270,410	-2,356	0	0	2	2,451	0	
20	1489.57	269,766	-644	0	1,756	2	2,463	0	
21	1490.39	271,414	1,648	0	4,015	2	2,362	0	
22	1491.48	273,616	2,202	0	4,523	2	2,377	0	
23	1492.27	275,218	1,602	0	4,175	2	2,360	0	
24	1492.85	276,397	1,179	0	3,593	2	2,380	0	
25	1492.37	275,421	-976	0	0	2	1,112	0	
26	1491.42	273,494	-1,927	0	0	2	2,067	0	
27	1491.45	273,555	61	0	1,855	2	2,216	0	
28	1492.88	276,459	2,904	550	3,374	327	1,927	14	
29	1494.18	279,114	2,655	434	3,628	602	1,756	14	
30	1496.03	282,919	3,805	190	4,778	154	1,705	14	
31	1498.05	287,108	4,189	463	4,317	542	1,697	16	
Total			24,331	1,637	83,214	1,678	63,775	58	
								1,635	

1/ Values supplied by LADWP, not verified by DWR.

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Ex-change	Transfer	Arvin-Edison Water Bank Recovery		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		85,612							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Removed							
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
		Warne Power Plant	14.07		85,488							
29H	W3	Pyramid Lake		Calif. State Park								
				Pyramid Recreation	0							
		14.10		United Water Conservation Dist.	0							
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(20,081 AF pumpback) 2/	109,360							
29J	W4	Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park								
				Castaic Lake Recreation	35							
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWD - 78"	12,005							
				MWD - 132"	48,890							
				Castaic Lake WA - T1	1,783							
				Castaic Lake WA	1,062							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	0							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	58							
				Reach 30 Subtotal:	63,775	59,051	35	0	0	4,689		
	W6	Castaic Lagoon		Recreation to Lagoon	0							
		Castaic Lagoon Outlet	31.87									

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

2/ Value supplied by LADWP, not verified by DWR.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River			
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel					
Nov 30	3351.32	71,425												
1	3351.06	71,178	-247	2,524	0	26	6	0	2,805	0	1	15	24	
2	3350.16	70,327	-851	2,119	0	24	7	0	2,993	0	1	7	24	
3	3349.18	69,407	-920	1,910	0	22	5	0	2,842	0	1	-4	24	
4	3349.13	69,360	-47	2,881	0	22	5	0	3,016	0	1	72	24	
5	3349.97	70,148	788	3,563	0	24	4	1	2,877	0	1	84	23	
6	3349.43	69,641	-507	2,810	0	24	5	0	3,271	0	1	-64	23	
7	3349.43	69,641	0	2,786	0	25	5	0	2,823	0	1	18	23	
8	3349.24	69,463	-178	2,626	0	23	6	0	2,865	0	1	45	23	
9	3348.38	68,660	-803	2,091	0	22	6	0	2,902	0	1	-7	23	
10	3348.09	68,391	-269	2,642	0	21	7	0	3,007	0	1	83	23	
11	3347.69	68,020	-371	2,585	0	20	6	0	2,939	0	1	-30	23	
12	3349.01	69,248	1,228	3,665	0	19	7	0	2,559	0	1	111	23	
13	3347.58	67,918	-1,330	1,470	0	17	7	0	2,775	0	1	-34	23	
14	3347.89	68,205	287	2,339	0	16	7	0	2,776	0	1	716	23	
15	3347.78	68,103	-102	2,670	0	16	6	1	2,730	0	1	-50	24	
16	3347.47	67,817	-286	2,843	0	18	6	0	3,117	0	1	-23	24	
17	3347.38	67,733	-84	2,850	0	17	6	0	2,953	0	1	9	23	
18	3346.89	67,282	-451	2,678	0	16	6	0	3,083	0	1	-55	23	
19	3347.43	67,780	498	3,630	0	15	6	0	3,100	0	1	-40	23	
20	3347.55	67,890	110	3,042	0	14	6	0	3,034	0	1	95	23	
21	3347.67	68,001	111	3,198	0	14	6	0	3,101	0	1	7	23	
22	3347.78	68,103	102	3,360	0	13	5	0	3,202	0	1	-63	23	
23	3348.51	68,781	678	3,754	0	12	5	0	3,012	0	1	-70	24	
24	3349.29	69,510	729	3,718	0	12	5	1	3,029	0	1	35	24	
25	3350.00	70,176	666	3,661	0	11	5	0	3,016	0	1	16	24	
26	3351.06	71,178	1,002	4,027	0	11	5	0	3,081	0	1	51	24	
27	3351.77	71,853	675	3,444	0	10	5	0	2,777	0	1	4	24	
28	3353.17	73,195	1,342	3,159	0	1,002	5	0	2,631	0	185	2	24	
29	3353.56	73,571	376	2,298	0	1,936	6	0	1,926	0	1,929	3	24	
30	3353.42	73,436	-135	1,912	0	678	5	0	1,968	0	753	1	24	
31	3352.55	72,599	-837	1,062	0	648	6	0	2,061	0	317	-163	24	
Total				1,174	87,317	0	4,748	177	3	88,271	0	3,211	771	728

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

December 2004

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Nov 30	1586.59	123,624				
1	1586.51	123,442	-182		9	
2	1586.59	123,624	182		890	
3	1586.51	123,442	-182		912	
4	1586.51	123,442	0		912	
5	1586.46	123,329	-113		941	
6	1586.51	123,442	113		931	
7	1586.51	123,442	0		931	
8	1586.51	123,442	0		932	
9	1586.51	123,442	0		952	
10	1586.51	123,442	0		951	
11	1586.51	123,442	0		561	
12	1586.51	123,442	0		9	
13	1586.51	123,442	0		10	
14	1586.41	123,215	-227		9	
15	1586.51	123,442	227		347	
16	1586.51	123,442	0		19	
17	1586.10	122,513	-929		9	
18	1586.09	122,491	-22		10	
19	1586.09	122,491	0		9	
20	1585.99	122,265	-226		10	
21	1585.99	122,265	0		9	
22	1586.04	122,378	113		9	
23	1586.10	122,513	135		8	
24	1586.04	122,378	-135		10	
25	1586.51	123,442	1,064		10	
26	1586.24	122,830	-612		10	
27	1586.24	122,830	0		10	
28	1586.40	123,193	363		10	
29	1586.51	123,442	249		11	
30	1586.51	123,442	0		10	
31	1586.54	123,510	68		9	
Total			-114	10,291	9,460	-945

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Table A Amount	Rec.	Ex-change	Transfer	Arvin-Edison Water Bank Recovery		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		178,054							
	41		298.65	Kern County Water Agency Tej.-Cas	Stub							
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 7,368 AF flow down Cottonwood Chute)	84,347		240	1				
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West	0							
			315.57	AVEK 225th Street West	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont	241							
				Mojave Water Agency Fairmont	0							
		Check No. 46	323.84									
				Reach 19 Total:	241	240	0	1	0	0		
20A	47	Check No. 47	326.77				11					
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	11							
			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	0							
				Antelope Valley-East Kern WA	1,069							
			339.68	Antelope Valley-East Kern WA	14							
20B	Check No. 50		341.51				1,069	14				
	51	Check No. 51	342.07									
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use							
			343.30	Antelope Valley-East Kern WA Temporary 12	11							
		Check No. 52	343.74									
	53		346.98	PWD Palmdale	416							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	95							
21	Check No. 53		348.17				416	95				
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.	0							
22A	57	Check No. 57	356.93				96	1				
	58		357.60	Antelope Valley-East Kern WA	1							
			357.72	Antelope Valley-East Kern WA 96th Street East	0							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	96							

Table 31b. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

December 2004

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries							
	Beginning and Ending					Table A Amount	Rec.	Ex-change	Transfer	Arvin-Edison Water Bank Recovery			
	No.	Structure	Mile										
22B	58	Pearblossom Pumping Plant	360.61		88,446	348	1/ 1,211						
	59	Check No. 59	366.09										
	60		366.50		Antelope Valley-East Kern WA 0								
		Check No. 60	373.94										
	61	Check No. 61	379.00										
	62	Check No. 62	384.26										
	63	Check No. 63	389.20		Mojave Water Agency Mojave River 1,559								
			394.60		Mojave Water Agency Temporary 0								
	64	Check No. 64	395.10										
	65	Check No. 65	400.32										
	66		401.10		Mojave Water Agency Morongo 24" and 42" 298								
					Mojave Water Agency Hesperia 0								
23		Check No. 66	403.41										
	67	Mojave Siphon	405.48		Las Flores Ranch 728								
24		Mojave Siphon Powerplant	405.65										
67	Silverwood Lake	407.65			Crestline Lake Arrowhead Water Agency 175								
					25						Calif. State Park Silverwood Agency (Rec.) 3		
68	San Bernardino Tunnel Intake	407.70											
	26A		Devil Canyon Powerplant		412.73								
68	Devil Canyon Afterbay Control Structures	412.88			MWD-SC Rialto 25,431								
					Desert Water Agency (MWD Wheeling Exchange) 6,682								
					MWD-SC T290 728								
					San Gabriel Valley Water District 1,426								
					Coachella Valley WD (MWD Wheeling Exchange) 5,788								
					San Bernardino Valley MWD 24" and 72" 134								
					San Bernardino Valley MWD 48" 0								
					MWD (SBVMWD Exchange) T291 13,505								
					San Gorgonio Pass Water Agency 58								
28G	69	Santa Ana Valley Pipeline	425.46										
28H			433.06		MWD-SC Box Springs 5,059								
28J			440.05		MWD-SC Perris Bypass Pipeline 19,002								
28J	69	Lake Perris	442.00		MWD-SC 18" 298								
			443.44		MWD-SC 54" 3,075								
					MWD-SC 78" 6,087								
					Calif. State Park Lake Perris Recreation 0								
					MWD Total: 146,550								
1/ Mojave received 1,211 AF of Solano WA Table A water.						141,861	0	0	0	4,689			
2/ San Gabriel received 1,059 AF of Dudley Ridge WA Table A water.													

Table 32. Water Quality At Selected SWP Locations

December 2004

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	41	101	84	113	83	85	83	77	73
Antimony	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	NR	0.4	0.2	0.2	0.2	0.1	0.1
Bromide	mg/l	<0.01	0.05	0.25	0.37	0.28	0.28	0.28	0.27	0.25
Calcium	mg/l	8	17	21	36	24	23	22	22	22
Carbon - Dissolved Organic	mg/l as C	NR	4	4	4	4	4	4	4	3
Carbon - Total Organic	mg/l as C	NR	4	4	4	4	4	4	4	3
Chloride	mg/l	1	28	78	121	88	85	84	84	77
Chromium	mg/l	<0.001	0.001	0.002	0.004	0.003	0.003	0.002	0.002	0.002
Copper	mg/l	<0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Fluoride	mg/l	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.1	0.1
Hardness	mg/l as CaCO ₃	36	100	106	168	122	114	113	108	100
Iron	mg/l	<0.005	0.018	0.029	0.011	0.009	0.007	0.013	0.023	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	14	13	19	15	14	14	13	11
Manganese	mg/l	<0.005	0.016	0.013	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	0.02	0.61	0.94	NR	1.09	0.98	0.90	1.01	0.86
Phosphorus-Ortho	mg/l as P	0.01	0.10	0.07	NR	0.08	0.07	<0.01	0.07	0.04
Phosphorus-Total	mg/l	0.01	0.19	0.10	NR	0.11	0.10	0.09	0.09	0.08
Selenium	mg/l	<0.001	<0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001
Sodium	mg/l	4	28	52	87	61	58	58	57	53
Specific Conductance	µS/cm	86	312	500	760	555	519	518	498	469
Sulfate	mg/l	2	26	36	94	49	42.5	37	41	37
Total Dissolved Solids	mg/l	49	195	283	451	316	301.25	284	292	265
Turbidity	NTU	2	24	5	11	5	4	5	7	3
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

December 2004

Date	Antioch Tides (feet above mean sea level)		Flow In CFS		Rio Vista	Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
			Net Delta Outflow Index			Antioch	Chippis Island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal		
	Highest High Tide	Actual High Half Tide	Mean Daily	Monthly Average		md	md	md	14dm	md	14dm	md	md	md		
38	1	2.56	0.85	4,709	4,709	6,215	5.12	9.48	1.39	1.48	1.21	1.19	0.53	0.68	0.60	100
	2	2.10	0.79	4,497	4,603	6,138	3.78	8.24	1.08	1.44	1.19	1.18	0.56	0.72	0.57	100
	3	1.89	0.71	3,100	4,102	5,722	3.70	9.05	1.18	1.43	1.18	1.19	0.58	0.75	0.58	100
	4	2.00	0.85	2,769	3,768	5,471	4.44	10.52	1.45	1.45	1.28	1.21	0.56	0.78	0.58	100
	5	2.30	0.85	2,420	3,499	6,729	4.96	11.58	1.62	1.52	1.28	1.23	0.54	0.80	0.59	105
	6	2.51	0.93	4,003	3,583	7,797	5.61	12.74	2.01	1.56	1.45	1.25	0.54	0.84	0.59	100
	7	3.02	1.24	3,721	3,602	7,491	6.93	12.92	2.51	1.63	1.85	1.29	0.55	0.66	0.63	100
	8	3.43	1.30	7,710	4,116	9,041	7.40	13.20	2.67	1.70	2.10	1.36	0.51	0.36	0.75	100
	9	3.15	1.00	12,489	5,046	11,249	6.42	11.84	1.51	1.69	1.79	1.40	0.60	0.34	0.75	105
	10	3.42	1.03	17,876	6,329	15,968	5.64	10.80	1.19	1.63	1.80	1.43	0.57	0.45	0.74	110
	11	3.76	1.26	25,819	8,101	23,164	4.95	9.61	0.84	1.51	1.79	1.45	0.50	0.53	0.59	100
	12	4.17	1.57	27,596	9,726	24,662	4.35	9.34	0.92	1.49	1.84	1.50	0.49	0.58	0.58	100
	13	3.89	1.56	20,335	10,542	20,248	3.77	8.29	0.79	1.46	1.74	1.54	0.54	0.63	0.58	105
	14	3.41	1.15	14,073	10,794	16,270	2.95	6.64	0.64	1.41	1.34	1.56	0.57	0.69	0.62	105
	15	3.22	1.04	12,061	10,878	14,494	2.49	6.02	0.61	1.36	1.23	1.56	0.54	0.73	0.62	105
	16	2.61	0.87	8,417	10,725	13,415	2.19	5.38	0.49	1.32	1.10	1.56	0.53	0.77	0.63	100
	17	2.14	0.61	6,581	10,481	12,911	1.85	5.03	0.40	1.26	1.03	1.54	0.59	0.79	0.62	105
	18	2.15	0.51	5,011	10,177	12,141	1.86	4.94	0.39	1.19	1.02	1.53	0.56	0.82	0.62	90
	19	2.22	0.38	3,489	9,825	11,693	1.78	4.94	0.38	1.10	1.01	1.51	0.57	0.84	0.64	95
	20	2.63	0.62	4,249	9,546	10,981	2.00	5.84	0.44	0.98	1.07	1.48	0.56	0.84	0.62	105
	21	2.92	0.83	3,215	9,245	10,473	2.42	7.08	0.54	0.84	1.17	1.43	0.55	0.85	0.63	110
	22	2.94	0.84	3,541	8,985	10,040	2.74	7.61	0.60	0.70	1.12	1.36	0.57	0.85	0.63	115
	23	3.08	0.98	3,133	8,731	9,685	3.14	8.48	0.78	0.64	1.12	1.31	0.58	0.83	0.64	110
	24	3.06	0.98	3,350	8,507	9,267	3.51	8.82	0.99	0.63	1.06	1.26	0.60	0.83	0.64	110
	25	3.26	1.14	3,911	8,323	9,114	3.74	9.62	1.17	0.65	1.07	1.21	0.62	0.83	0.65	105
	26	3.71	1.59	3,657	8,143	8,908	4.47	11.01	1.88	0.72	1.26	1.17	0.61	0.83	0.64	90
	27	4.15	2.02	3,603	7,975	8,549	6.00	12.78	2.64	0.85	2.01	1.19	0.65	0.80	0.75	110
	28	3.96	2.00	5,990	7,904	8,781	5.84	11.91	2.00	0.95	2.15	1.24	0.64	0.53	0.00	110
	29	3.97	2.07	13,049	8,082	12,459	5.45	11.73	1.51	1.02	2.03	1.30	0.70	0.30	0.00	110
	30	3.67	2.28	27,845	8,741	26,603	4.71	9.53	0.72	1.03	1.78	1.35	0.68	0.30	0.00	115
	31	3.47	2.03	45,056	9,912	37,708	3.26	5.91	0.35	1.03	1.40	1.38	0.73	0.30	0.00	117

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

f = Excess Delta conditions with fish concerns.

N.R. = No Record.

N.C. = Not computed due to insufficient data.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

December 2004

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 15, 2004	None Detected	
California Aqueduct At Banks Pumping Plant	September 15, 2004	2,4-D	0.20
O'Niell Forebay Outlet Check 13	September 15, 2004	2,4-D	0.1
Delta Mendota Canal At McCabe Road	September 15, 2004	2,4-D	0.3
California Aqueduct Near Kettleman City (Check 21)	September 15, 2004	2,4-D	0.2
California Aqueduct At Near Highway 119 (Check 29)	September 15, 2004	2,4-D	0.1
California Aqueduct at Devil Canyon Headworks	September 15, 2004	2,4-D	0.1
California Aqueduct At Tehachapi Afterbay (Check 41)	September 15, 2004	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

December 2004

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	4,082,400	0	30,086	32,123	3,121,344	3,121,344	321,365	173
2	3,226,752	0	29,365	32,487	2,179,776	2,179,776	350,705	178
3	2,397,024	2,016	31,304	33,278	2,186,304	2,186,304	319,140	177
4	1,162,656	8,640	29,435	35,441	2,221,056	2,221,056	296,285	178
5	304,992	9,792	29,099	33,985	2,168,832	2,168,832	266,490	178
6	2,171,808	6,336	30,268	33,166	1,106,112	1,106,112	253,695	165
7	2,290,464	7,200	28,490	32,284	2,470,656	2,470,656	161,080	153
8	2,468,736	5,760	27,237	32,613	2,667,456	2,667,456	225,370	166
9	3,395,232	4,608	24,934	32,984	2,431,104	2,431,104	225,100	156
10	2,506,176	4,032	25,683	32,620	2,395,200	2,395,200	242,405	160
11	2,415,744	2,304	25,830	33,145	882,816	882,816	235,600	173
12	2,912,256	6,048	22,414	31,122	1,064,640	1,064,640	244,475	174
13	4,031,712	5,184	21,833	31,472	1,031,808	1,031,808	230,440	163
14	3,943,872	4,896	19,558	29,337	1,033,344	1,033,344	230,900	155
15	4,040,352	5,184	19,894	28,581	1,036,800	1,036,800	230,750	157
16	4,592,736	5,472	20,601	29,932	3,208,320	3,208,320	235,705	154
17	4,796,928	5,184	23,247	30,079	3,557,952	3,557,952	224,175	153
18	2,513,376	4,608	24,444	33,544	3,849,216	3,849,216	248,355	152
19	3,204,864	4,032	22,666	30,604	3,598,656	3,598,656	231,175	154
20	3,136,896	6,336	22,820	30,765	3,094,464	3,094,464	228,570	163
21	3,241,440	5,472	22,323	27,573	3,332,160	3,332,160	240,640	172
22	4,041,216	4,032	17,619	26,313	2,875,008	2,875,008	265,170	170
23	4,084,992	5,184	19,978	26,978	2,700,288	2,700,288	252,525	184
24	3,361,536	4,032	25,277	32,032	2,457,792	2,457,792	272,385	215
25	1,455,552	8,352	21,609	29,456	2,458,944	2,458,944	264,985	219
26	3,221,856	8,064	18,060	24,815	2,294,016	2,294,016	265,115	220
27	4,029,984	5,760	19,866	28,021	2,152,320	2,152,320	251,575	210
28	5,561,856	5,472	17,430	24,031	2,166,528	2,166,528	91,460	179
29	4,187,808	5,760	21,819	30,583	2,454,720	2,454,720	118,715	168
30	3,902,688	6,336	18,865	28,245	2,780,928	2,780,928	102,110	159
31	4,874,400	5,184	14,581	23,758	4,006,656	4,006,656	90,865	159
Total	101,558,304	161,280	726,635	941,367	74,985,216	74,985,216	7,217,325	5,337

Table 36. San Luis Field Division Energy Data

(in kWh)

December 2004

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,073,376	1,073,376	91,584	91,584	2,807,136	1,520,136
2	938,592	938,592	0	0	2,663,424	404,424
3	970,560	970,560	0	0	2,664,288	405,288
4	1,054,656	1,054,656	0	0	2,402,208	339,208
5	1,219,392	1,219,392	0	0	3,642,624	-29,376
6	739,296	604,296	0	0	1,372,032	-4,968
7	696,240	561,240	0	0	542,016	22,016
8	899,568	764,568	373,824	373,824	2,148,768	1,212,768
9	887,328	752,328	0	0	1,990,368	1,495,368
10	885,888	885,888	0	0	2,066,112	689,112
11	898,272	898,272	707,040	707,040	1,290,816	-86,184
12	1,078,128	1,078,128	0	0	1,335,456	15,456
13	1,016,784	1,016,784	1,320,768	1,320,768	835,776	-51,224
14	879,696	879,696	372,672	372,672	2,213,280	-45,720
15	905,760	905,760	410,112	410,112	2,215,296	-43,704
16	926,352	926,352	0	0	2,803,680	740,680
17	859,104	682,104	0	0	2,926,080	1,108,080
18	1,085,472	908,472	0	0	3,477,024	1,659,024
19	1,345,680	1,177,680	0	0	7,039,296	3,363,296
20	962,352	785,352	0	0	2,949,120	1,935,120
21	883,872	706,872	0	0	1,537,056	34,056
22	1,046,592	869,592	0	0	2,525,760	1,148,760
23	908,496	765,496	0	0	2,225,376	848,376
24	970,272	793,272	0	0	2,213,568	395,568
25	1,063,728	886,728	0	0	3,860,640	1,805,640
26	978,192	810,192	0	0	2,293,632	973,632
27	796,032	619,032	0	0	1,740,384	1,049,384
28	865,728	688,728	0	0	2,295,648	820,648
29	662,688	485,688	0	0	3,220,992	1,402,992
30	431,280	254,280	0	0	2,769,408	1,509,408
31	394,272	217,272	0	0	4,444,128	3,260,128
Total	28,323,648	25,180,648	3,276,000	3,276,000	78,511,392	27,897,392

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

December 2004

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	6,110	15,656	49,005	49,210	49,795	1,351,872	1,459,224	3,294,432	12,355,920
2	7,888	19,832	67,625	61,970	66,990	1,407,456	1,557,648	3,450,528	12,742,560
3	6,450	15,856	50,495	46,675	51,560	1,271,088	1,406,520	3,148,416	11,679,120
4	6,824	17,472	56,085	53,545	56,040	1,450,872	1,605,312	3,605,472	13,475,520
5	7,524	19,888	67,660	63,325	69,605	1,592,496	1,815,768	4,101,984	15,233,760
6	6,408	16,432	44,030	40,230	44,030	1,226,016	1,339,488	3,006,144	11,268,000
7	8,988	22,624	70,235	65,720	69,925	1,193,688	1,420,704	3,203,136	11,828,880
8	6,802	17,992	50,575	47,165	50,875	1,232,568	1,426,752	3,235,968	11,965,680
9	8,266	20,912	68,770	65,240	69,055	1,347,120	1,516,752	3,421,152	12,405,600
10	9,346	24,544	61,660	58,455	61,420	1,192,608	1,359,720	3,110,400	11,548,800
11	8,918	23,704	62,645	58,890	62,420	1,305,504	1,476,576	3,346,560	12,407,040
12	8,934	22,128	69,785	66,425	71,045	1,621,512	1,824,048	4,133,664	15,354,720
13	5,796	14,456	44,140	38,845	41,140	1,328,616	1,518,624	3,456,000	12,634,560
14	8,128	21,552	64,330	60,965	64,525	1,243,944	1,489,320	3,337,920	12,394,080
15	9,014	23,880	64,240	60,895	64,935	1,352,520	1,529,640	3,491,136	12,866,400
16	7,452	19,320	62,920	59,120	63,345	1,273,536	1,483,416	3,337,920	12,409,920
17	6,984	17,416	50,830	47,600	50,625	1,229,760	1,414,368	3,199,680	12,132,720
18	8,748	23,168	42,960	40,050	44,460	1,426,536	1,669,752	3,792,384	13,835,520
19	11,174	27,608	66,610	62,620	68,140	1,828,224	2,058,768	4,671,936	17,467,200
20	7,730	21,688	48,875	46,105	48,780	1,355,472	1,559,664	3,509,280	12,859,920
21	10,696	28,000	58,610	53,860	58,305	1,465,992	1,676,304	3,790,656	14,392,080
22	10,802	28,360	60,010	57,810	60,955	1,523,808	1,766,592	4,009,248	14,621,760
23	8,638	22,784	60,315	56,650	60,745	1,497,384	1,712,952	3,849,408	14,392,080
24	5,136	12,488	38,720	35,955	38,575	1,488,960	1,704,096	3,844,512	14,433,120
25	5,730	15,464	38,210	34,300	38,420	1,845,000	2,093,328	4,697,568	17,477,280
26	6,808	16,256	39,625	35,780	39,140	1,662,768	1,915,200	4,333,824	16,209,360
27	5,422	13,568	52,540	49,095	52,405	1,350,936	1,596,600	3,586,176	13,289,760
28	7,040	18,512	40,315	36,990	40,230	1,292,544	1,465,200	3,234,240	12,171,600
29	4,654	11,432	42,915	39,505	42,710	1,121,256	1,331,784	2,998,080	11,024,640
30	2,702	6,664	32,210	30,035	31,605	846,144	969,912	2,177,568	8,301,600
31	3,300	7,816	27,100	25,035	27,965	587,016	717,552	1,607,040	5,791,680
Total	228,412	587,472	1,654,045	1,548,065	1,659,765	41,913,216	47,881,584	107,982,432	400,970,880

Table 38. Southern Field Division Energy Data

(in kWh)

December 2004

Date	West Branch			East Branch							
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation	Cherry Valley Pumping Plant	Crafton Hills Pumping Plant	Green Spot Pumping Plant	
1	704,256	1,783,872	2,880,000	317,156	1,686,756	3,419,424	157,017	1,700	939	549	
2	833,952	1,699,848	2,880,000	279,552	1,496,208	3,609,312	159,873	12,922	16,476	1,139	
3	821,744	1,757,808	2,880,000	248,808	1,367,232	3,455,808	148,428	13,025	16,330	1,103	
4	799,344	1,681,920	2,880,000	337,568	1,933,956	3,632,736	228,753	1,696	626	500	
5	770,784	1,628,064	2,880,000	404,012	2,448,996	3,505,344	283,962	1,613	744	514	
6	555,632	1,026,720	2,880,000	151,508	1,843,488	3,932,256	221,802	1,726	789	986	
7	633,136	1,278,648	2,880,000	200,060	1,871,496	3,442,848	220,857	1,723	896	514	
8	723,688	1,794,096	2,880,000	304,920	1,752,780	3,466,176	211,911	1,646	646	557	
9	646,688	1,673,352	2,880,000	369,348	1,950,312	3,516,096	166,047	13,332	16,745	553	
10	645,120	1,663,128	2,880,000	324,520	1,629,240	3,624,096	212,961	1,339	472	467	
11	783,496	1,668,096	2,880,000	309,596	1,793,904	3,563,712	214,242	1,363	484	409	
12	805,784	1,538,352	2,880,000	415,324	2,490,396	3,091,008	303,051	1,331	490	408	
13	1,078,336	1,474,488	2,880,000	183,204	968,628	3,374,016	118,125	1,336	492	653	
14	701,288	1,718,208	2,880,000	322,448	1,761,492	2,372,448	174,090	1,320	491	1,288	
15	749,784	1,466,496	2,880,000	205,548	1,800,528	3,317,952	223,251	1,320	489	857	
16	717,864	1,698,768	2,880,000	317,828	1,946,412	3,733,152	237,027	12,152	16,757	1,213	
17	717,752	1,618,200	2,880,000	309,596	1,760,376	3,530,208	233,163	1,315	484	500	
18	723,352	1,674,144	2,880,000	399,980	1,998,612	3,725,280	218,253	1,404	470	420	
19	944,104	973,368	2,880,000	427,616	2,670,516	3,722,400	300,363	1,352	476	422	
20	692,104	1,553,688	2,880,000	356,412	1,954,428	3,660,096	249,375	1,374	500	392	
21	762,944	1,540,368	2,880,000	400,232	2,160,576	3,742,752	267,393	12,848	16,722	1,166	
22	794,808	1,656,648	2,880,000	388,388	2,282,292	3,855,648	278,964	1,565	522	561	
23	691,712	1,744,488	2,880,000	399,196	2,497,272	3,645,024	303,345	10,266	12,870	763	
24	683,312	1,651,032	2,880,000	416,836	2,510,592	3,658,944	297,486	1,554	607	553	
25	986,496	1,545,192	20,160,000	423,248	2,568,132	3,659,904	294,987	1,563	598	488	
26	700,168	1,585,944	20,160,000	422,072	2,681,040	3,741,696	306,348	1,614	615	483	
27	714,280	1,697,760	20,160,000	326,088	2,180,652	3,396,864	275,793	7,885	9,595	1,079	
28	631,736	1,705,824	20,160,000	329,728	2,070,636	3,209,376	240,702	8,814	11,223	566	
29	674,632	1,199,520	9,202,000	272,972	1,594,500	2,337,984	165,816	1,554	557	583	
30	655,424	1,575,432	5,136,000	154,868	1,220,796	2,402,112	144,858	1,531	613	596	
31	420,112	1,099,728	3,538,000	112,560	678,528	2,527,296	67,515	1,530	709	576	
Total	22,343,720	47,273,472	164,098,000	9,718,632	58,892,244	103,344,672	6,858,243	125,713	130,427	20,858	